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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/995,606	11/29/2001	Hiroyuki Oda	216634US2S	2312	
22850 7:	590 07/11/2003				
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER		
			GUHARAY, KARABI		
			ART UNIT	PAPER NUMBER	
			2879		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Surresions of the many be available under the provision of 3° CFR 1.36(a). In an event, however, may a reply be timely filed The MAILING DATE of THIS COMMUNICATION. Surresions of the reply seadled above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days, a reply within the provision of the reply seadled above. The maximum databove provide with provide and the provision of the provision								
Office Action Summary Starting Continue Continue	., \		Applica	tion No.	Applicant(s)			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.138(a). In no event, however, may a reply be timely filled after SX (8) MCN/THS from the mailing date of the communication. I 11 Operator for multy is supplied under the provisions of 37 CPR 1.138(a). In no event, however, may a reply be timely filled after SX (8) MCN/THS from the mailing date of this communication. I 11 Operator for multy is supplied above, the maximum stallary pand will be safety. (8) MCN/THS from the mailing date of this communication. I 11 Operator for multy is supplied and the safety of the mailing date of this communication. Failure to reply within the set or extended period for reply will, by stable, cause the application to become ABANCOVED (35 U.S. 0, \$133). Any reply recorded by the Office allege and the fill and the safety of the mailing date of this communication, even if timely filled, may reduce any example placetion to record and placet time adjustment. Set 97 CPR 1.704(b). Status 1)∑ Responsive to communication(s) filled on 29 November 2001. 2a)☐ This action is FINAL. 2b)∑ This action is non-final. 3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)∑ Claim(s) 1-14 is/are rejected. 7)☐ Claim(s) 1-14 is/are rejected. 10)∑ The drawing(s) filled on 29 November 2001 is/are: a)☐ accepted or b)∑ objected to by the Examiner. Application Papers 9)☐ The specification is objected to by the Examiner. 10)∑ The drawing(s) filled on 29 November 2001 is/are: a)☐ accepted or b)∑ objected to by the Exam	Office Action Summary		09/995,	606	ODA ET AL.			
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Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.35(s). In no event, however, may a reply be timely filled after Six (p) MONTHS from the maining date of 15 (p) MONTHS from the mai								
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CPF 1.38(a). In no event, however, may a reply be timely filed after Six (6) MONTH's from the mailing date of this communication. If the period to reply specified above his less than they (30) days, may be statutory minimum of thinty (30) days will be considered timely. Failure to reply within the set or extended period for reply will, by statution, cause the application to become ABANDONED (38 U.S.C.§ 133). Any reply received by the Office leafer than there months after the mailing date of this communication, even if timely filed, may reduce any earmed patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 29 November 2001. 2a) This action is FINAL. 2b) This action is FINAL. 2b) This action is round the provided of the communication of the mailing date of this communication, even if timely filed, may reduce any earmed patent term adjustment. See 37 CFR 1.704(b). Status 1) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) 1-14 is/are rejected to. 8) Claim(s) is/are objected to by the Examiner. 10) The drawing(s) filed on see subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on see subject to restriction to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are allowed. 12) Certified copies of the priority documents have been received			ication appears on t	he cover sheet v	vith the correspondence add	aress		
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Attachment(s)	1							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3. 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:	2) 🔲 Notic	e of Draftsperson's Patent Drawing Review		5) Notice				

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Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

Fig. 1, & Fig. 9A should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujiwara et al. (JP 4-160739).

Regarding claims 1 & 11, Fujiwara et al. disclose a cathode ray tube (Fig 2) comprising an electron gun (Fig 1) having electron beam generating section (cathodes K) which generates a plurality of electron beams and a main lens (grids G5 through G6) which focuses the electron beams on a phosphor screen (12) and a deflection yoke (18) which produces a deflection magnetic field that deflects the electron beams emitted from electron gun (15) in a horizontal and vertical direction, the main lens section

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comprises a focus electrode supplied with focus voltage of a first level, at least one intermediate electrode (Gm1, Gm2) with a voltage of a second level equal to or higher than first level, and anode (G6) supplied with an anode voltage of third level higher than the second level, the focus electrode (G5), at least one intermediate electrode (Gm1, Gm2) and the anode (G6) being arranged in a direction of travel of the electron beam (see Fig 1b), and the main lens section includes an electric lens acting commonly on the electron beams on a focus region of the main lens section formed by focus electrode (G5) and intermediate electrode (Gm1) and a plurality of electric field lens acting respectively on the electron beams on a divergence region of the main lens section which is formed by the intermediate electrode (Gm2) and the anode (G6). See Fig 4a.

Regarding claim 2, Fujiwara et al. disclose that the focus electrode (G5) and the intermediate electrode (GM1) have at their mutually opposing faces, outer peripheral electrodes defining opening portions, which commonly pass the electron beams (see Fig 4a, and see English abstract).

Regarding claim 3, Fujiwara et al. disclose at least one intermediate electrode (Gm2) and the anode (G6) have at their mutually opposing faces, a plurality of electron beam passage holes which individually pass the electron beams (Fig 4a).

Regarding claims 4, 5 & 6, Fujiwara et al. disclose each of the plurality of holes formed in anode (G6) is of non-circular shape with a major axis in the horizontal direction (Fig 11) are axially asymmetric lens having horizontal focusing lens function and a vertical diverging lens function (see Constitution part of Abstract).

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Regarding claim 7, Fujiwara et al. disclose that the main lens section comprises a focus electrode (G5) and first intermediate electrode (Gm1) and a second intermediate electrode (Gm2) and an anode (G6) which are arranged in a direction of travel of the electron beam and the electric field lens acting commonly on the electron beam is formed by the focus electrode (G5) and the first intermediate electrode (Gm1) and a plurality of electric field lens acting respectively on the electron beams are formed by the second intermediate electrode (Gm2) and the anode (G6). See Fig 4a.

Regarding claim 8, Fujiwara et al. disclose that the at least one intermediate electrode (Gm1, Gm2) is connected to a resistor disposed near the electron gun and supplied with a voltage obtained by resistor-dividing anode voltage (Fig 4a).

Regarding claims 9 & 13, Fujiwara et al. disclose that focus electrode has a first focus electrode (G4) supplied with a reference voltage and a second focus electrode (G5) supplied with a dynamic focus voltage obtained by superimposing upon the reference voltage an ac component varying with deflection yoke (see Fig 4a. and page 213 of the document).

Regarding claim 10, Fujiwara et al. disclose that the second focus electrode (G5) and the intermediate electrode (GM1) have at their mutually opposing faces, outer peripheral electrodes defining opening portions, which commonly pass the electron beams (see Fig 4a, and see English abstract).

Claim 12 recites essentially the limitations of claim 2 and 3. Thus claim 12 is rejected as claims 2&3 (see rejection of claims 2 & 3).

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Regarding claim 14, Fujiwara et al. disclose that the focus electrode (G5) includes an end face (first cylinder of the G5 electrode) having a plurality of electron beam passage holes which individually passes each electron beam and an outer peripheral electrode (the cylindrical cup of the G5 electrode nearest to the intermediate electrode Gm1) forming an electron beam passage hole (Fig 4b) which commonly passes the electron beams (see constitution of English Abstract).

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Amano et al. (US 6100630); Kimiya et al. (US 6313575).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is (703) 305-1971. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (703) 305-4794. The fax phone number for the organization is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Karabi Guharay Patent Examiner Art Unit 2879

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